

PROJECT DESCRIPTION

1. GENERAL

This project involves the installation of bi-directional Lighted Guidance Tubing along US 1 in Cecil County. The tubing will be installed for 400' along the north end of Conowingo Dam and on 50' of the bridge crossing the Conrail tracks.

11. SPECIAL NOTE

The Contractor is to contact the Manufactures representative for assistance in the installation of the Lighted Guidance Tubing. Call Mr. Harry Anderson at (612) 733-7226 at least two weeks prior to the installation date.

EQUIPMENT LISTS

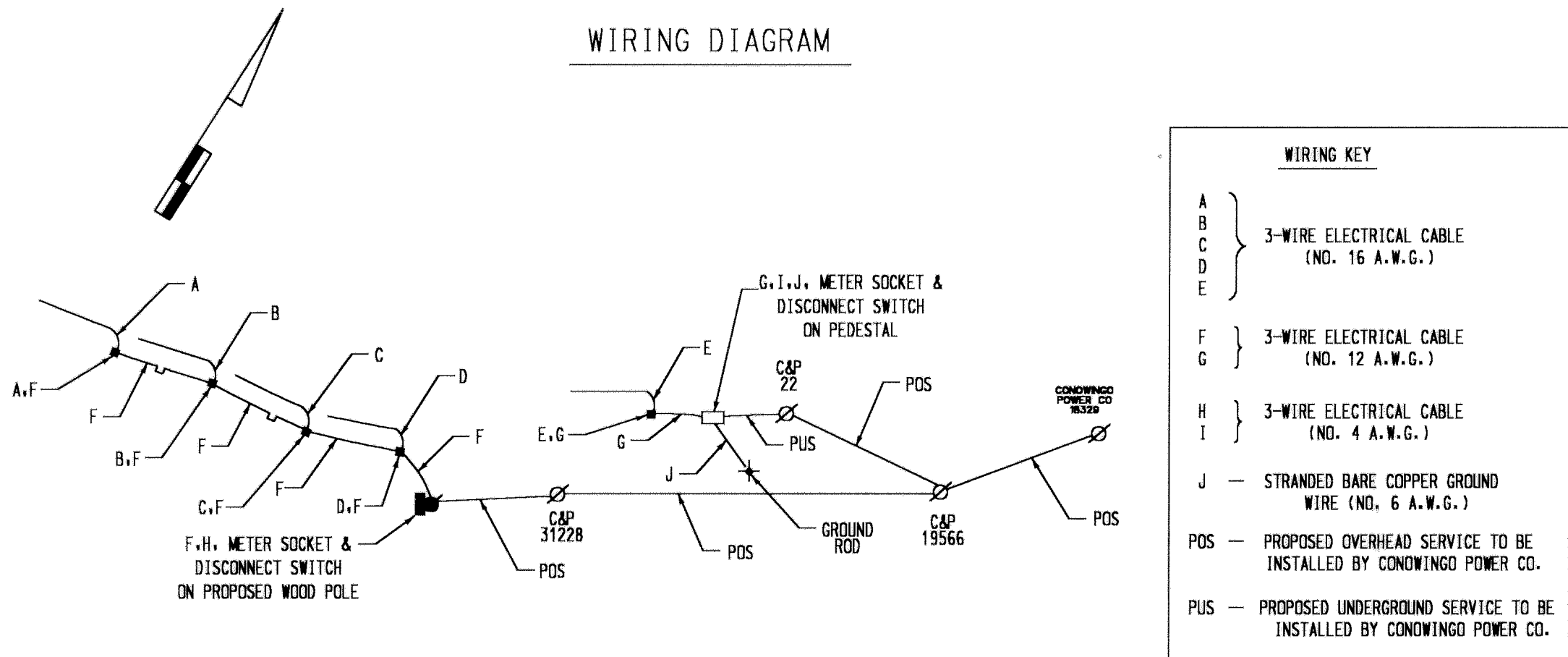
A. EQUIPMENT TO BE SUPPLIED BY S.H.A.

ITEM NO.	QUANTITY	DESCRIPTION
9001	Lump Sum	600' of Lighted Guidance Tube, five (5) Light Injectors, Ballast and brackets.

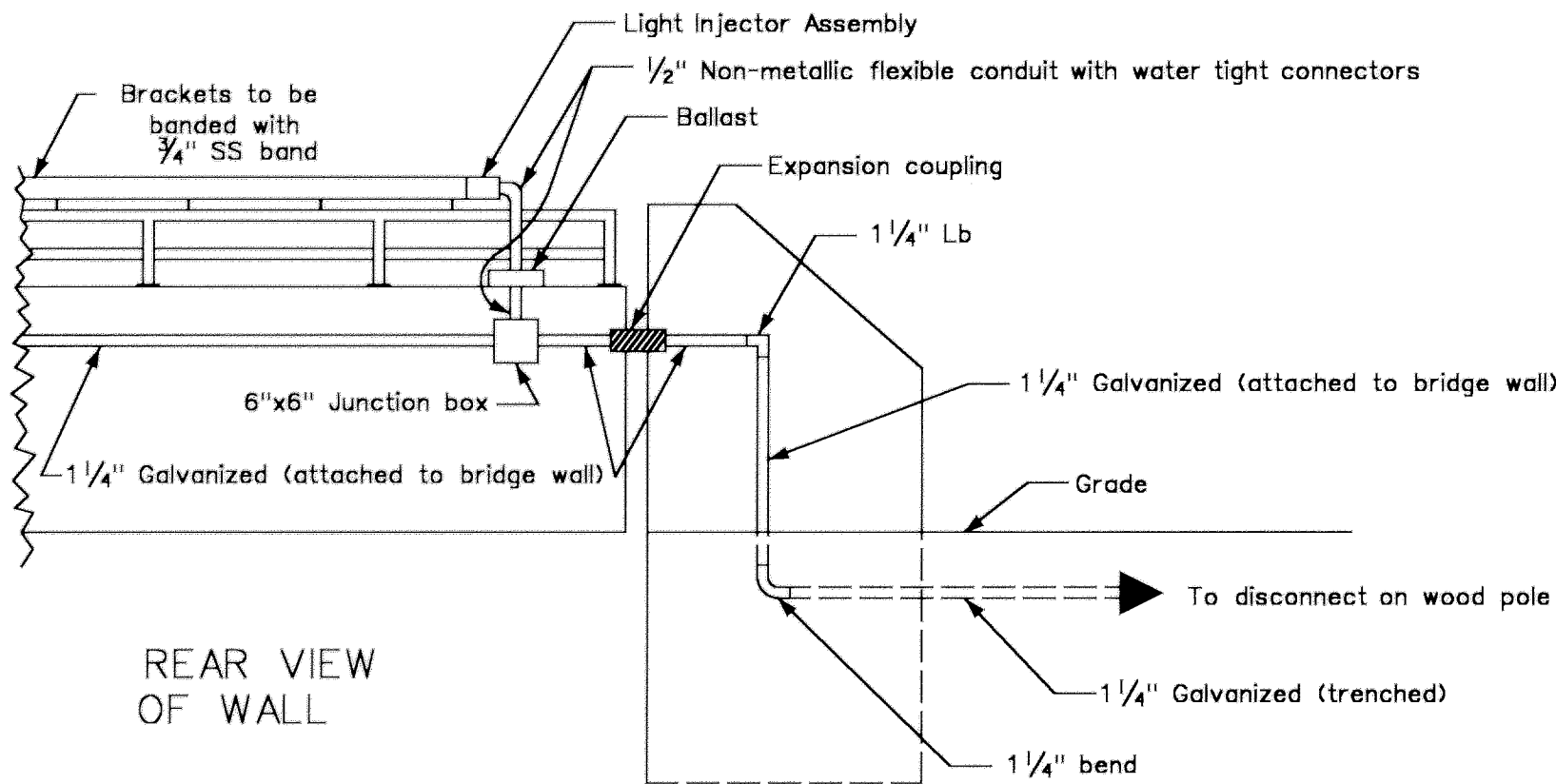
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 Each	Maintenance of traffic per assignment.
2001	1 C.Y.	Test pit excavation.
8034	1 Each	Furnish and install ground rod, 3/4" diameter x 10' length.
8049	10 L.F.	Furnish and install stranded bare copper ground wire (No. 6 A.W.G.).
8070	2 Each	Furnish and install control and distribution equipment. (120/240V, 1 Phase 3 Wire system.)
8076	30 L.F.	Furnish and install 1 1/4" galvanized steel conduit (riser).
Neg.	1 Each	Furnish and install 40' wood pole.
Neg.	1 Each	Furnish and install down guy.
Neg.	1 Each	Furnish and install metered head post (Midwest - R208CP6HP) pedestal.
Neg.	70 L.F.	Furnish and install 1 1/4" galvanized steel conduit (trenched).
Neg.	350 L.F.	Furnish and install 1 1/4" galvanized steel conduit (attached to bridge wall).
Neg.	1 Each	Furnish and install 1 1/4" weatherhead.
Neg.	12 Each	Furnish and install 1 1/4" Lb.
Neg.	3 Each	Furnish and install 1 1/4" expansion coupling.
Neg.	30 L.F.	Furnish and install 2" galvanized steel conduit (riser).
Neg.	60 L.F.	Furnish and install 2" galvanized steel conduit (trenched).
Neg.	1 Each	Furnish and install 2" weatherhead.
Neg.	30 L.F.	Furnish and install 1/2" non-metallic flexible conduit.
Neg.	600 L.F.	Furnish and install 3-wire electrical cable (No. 12 A.W.G.).
Neg.	80 L.F.	Furnish and install 3-wire electrical cable (No. 16 A.W.G.).
Neg.	600 L.F.	Install Lighted Guidance Tube.
Neg.	1 Each	Cut Lighted Guidance Tube.

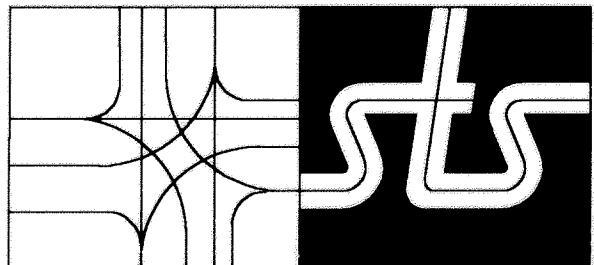
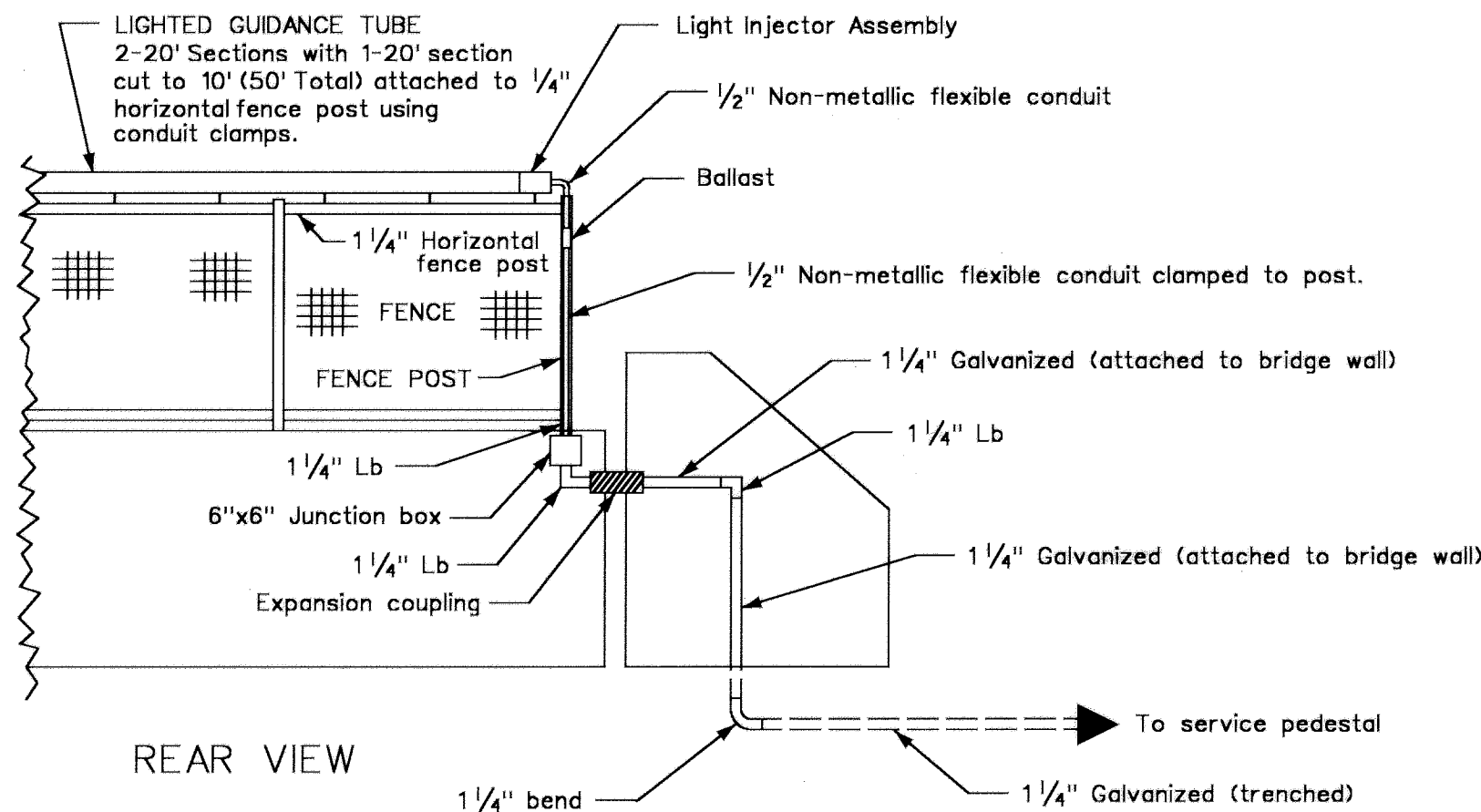
WIRING DIAGRAM



BRIDGE (DAM) ATTACHMENT TYPICAL



RAILROAD BRIDGE ATTACHMENT TYPICAL



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REVISIONS

APPROVALS

ASST. CHIEF TRD SECTION
ASST. DISTRICT ENGINEER, TRAFFIC
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, TRAFFIC & SAFETY



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION

Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION

US 1 AND CONOWINGO DAM / MD 222

DRAWN BY: THACKER

CHECK BY:

DATE: 7-13-98

SCALE: N/A

COUNTY: HARFORD/ CECIL

LOG MILE: 07000100.45

F.A.P. NO.

S.H.A. NO. AW277A53

TS NO.

1762AGI

T.I.M.S. NO.

C-745

SHEET NO.

2 OF 2

JUL 24 1998